

On the structure of infinitesimal almost projective transformations in the tangent bundle of a general space of paths

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Abstract

We establish necessary conditions for a vector field on the tangent bundle of a general space of paths to be an infinitesimal almost projective transformation in the case when the tensor fields determining the complexes of autoparallel curves are Yano-Okubo-Kagan complete lifts of tensor fields from the base manifold. © 2010 Allerton Press, Inc.

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Keywords

general space of paths, infinitesimal almost projective transformation, tangent bundle, Yano-Okubo-Kagan complete lift